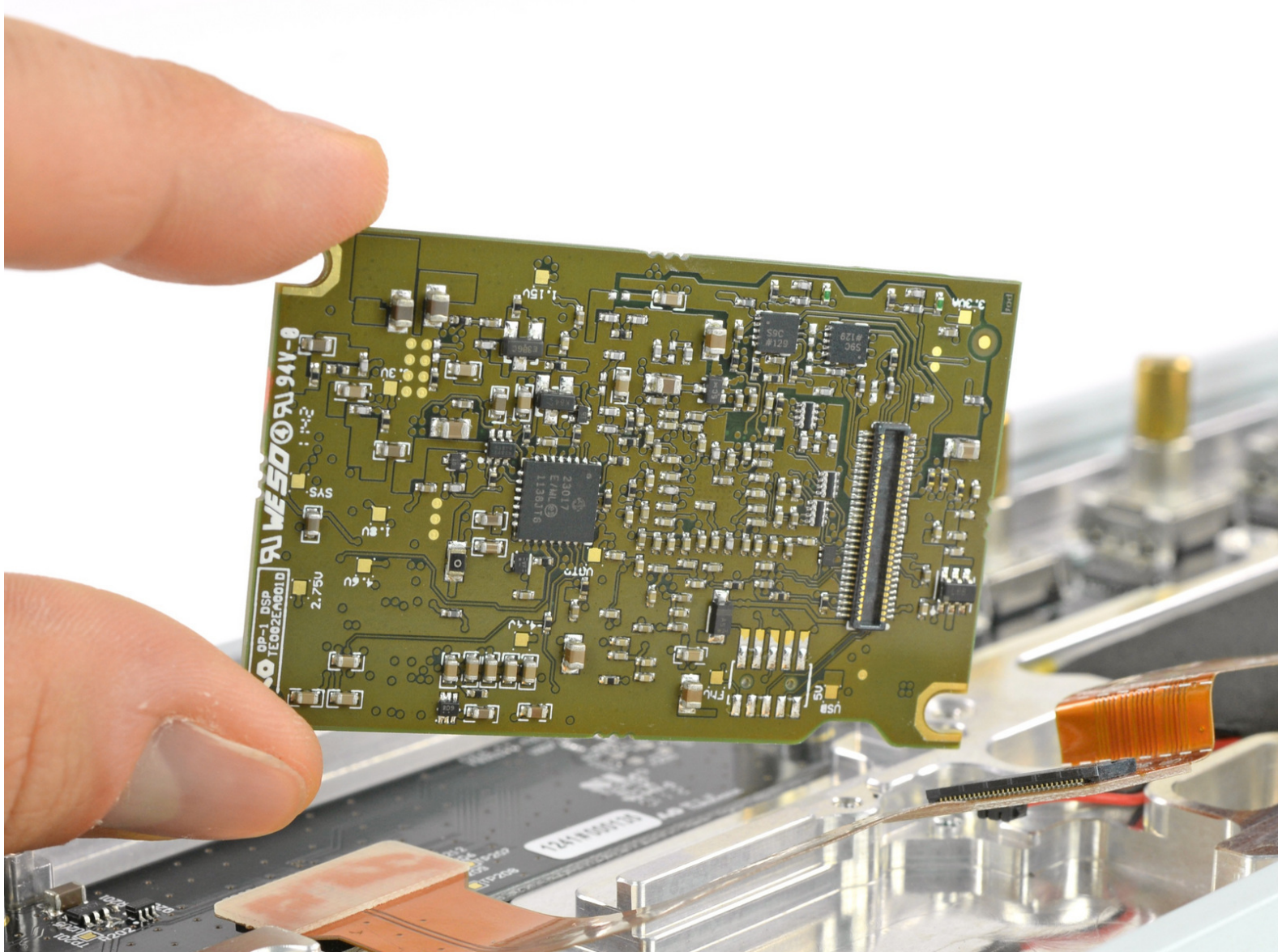




Teenage Engineering OP-1 DSP Board Replacement

Use this guide to replace the DSP board of your OP-1.

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INTRODUCTION

The Digital Signal Processing board is basically the brains of this little brat. Fortunately we can replace this kind of brain if it should malfunction at some point.



TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [Spudger](#) (1)
-

Step 1 — key removal



i To get to the screws beneath the keyboard you need to take some keys off. You can use either an opening tool or an opening pick. The first picture shows how it should look like with all the necessary keys off (12 in total).

- The four longer keys from the fingerboard are to be handled from the left side to get them off.
- The eight smaller keys need to be levered from the bottom up.

Step 2 — removing scissors mechanisms



- The scissor mechanism of the eight small keys are obstructing the underlying screws.
- By using again an opening tool or opening pick these can be snapped off easily.

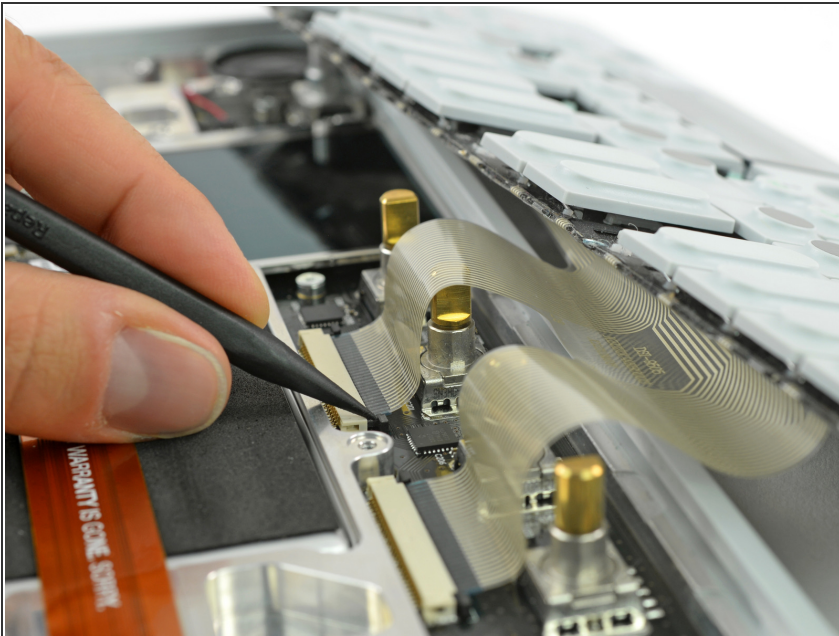
i When reassembling be sure to place them in with the correct side facing upwards.

Step 3 — unscrew keyboard



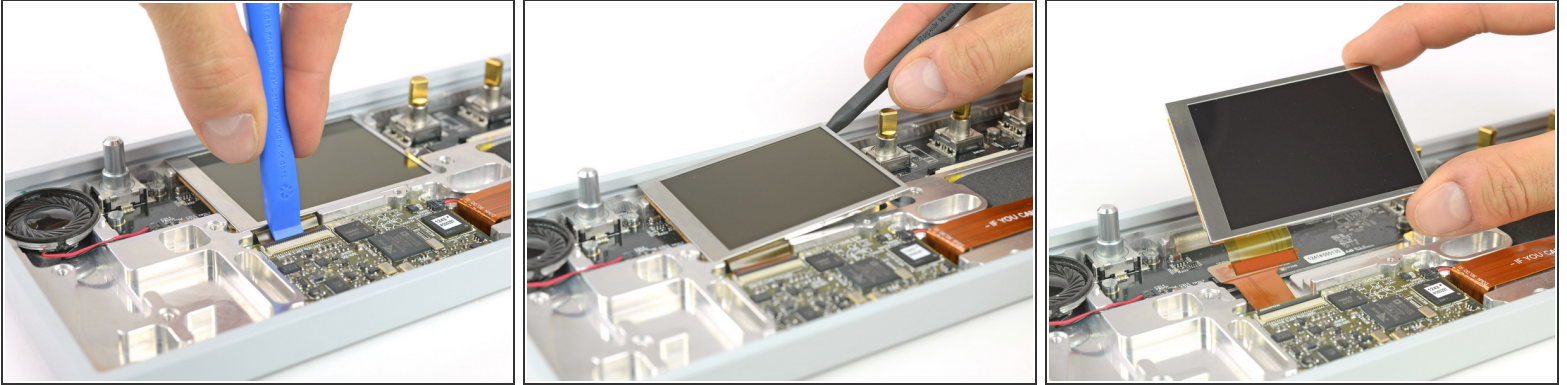
- Loosen those 12 screws with a Phillips #00 screwdriver.
- Then just pull off the four rotary knobs and the volume knob.
- Now it is possible to slightly lift the keyboard and set it back.

Step 4 — unplug and remove keyboard



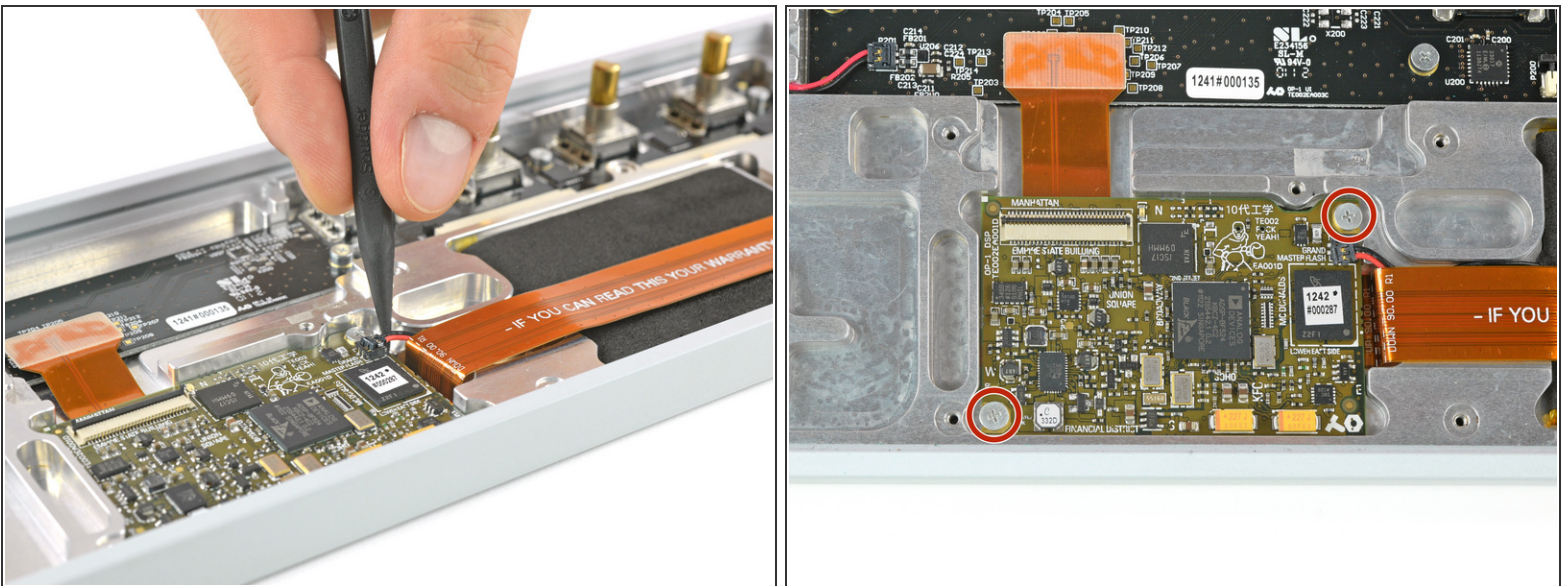
- Unlock the flex cables by pushing the two black ribs on both sides of each connector.
- Now you can pull the flex cables out and remove the keyboard completely.

Step 5 — remove display



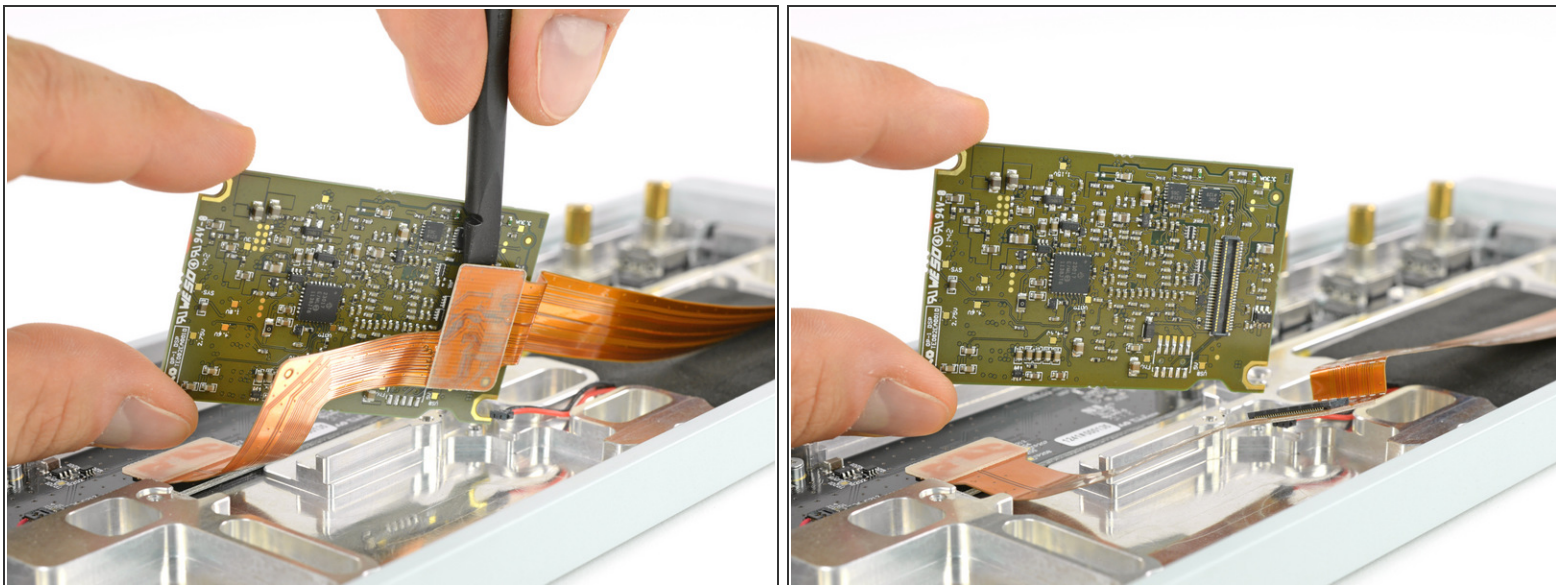
- Open the display cable connector by using a plastic opening tool to flip the latch upwards.
- The display is held in place with a mild adhesive. A spudger helps you to get it free.
- Now you can unplug the cable and take out the whole display.

Step 6 — DSP Board



- Disconnect the battery connector from the DSP board.
- Unscrew the two Phillips #00 screws holding the board down.

Step 7



- Now you can carefully lift the DSP board to access the flex cable connector underneath.
- Disconnect the flex cable by using a spudger and remove the DSP board.

To reassemble your device, follow these instructions in reverse order.

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